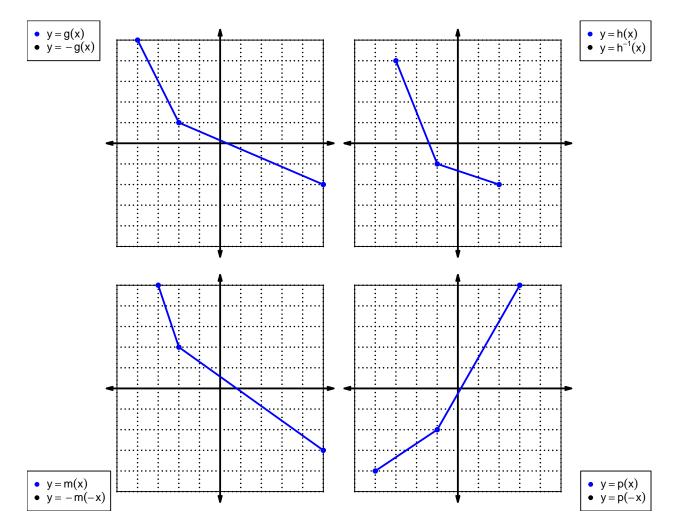
1. Let function f be defined by the polynomial below:

$$f(x) = 9x^5 + 5x^4 - 6x^3 - 3x^2 - 2x + 7$$

Draw lines that match each function reflection with its polynomial:

Reflections Polynomials -f(-x)• $-9x^5 - 5x^4 + 6x^3 + 3x^2 + 2x - 7$ -f(x)• $-9x^5 + 5x^4 + 6x^3 - 3x^2 + 2x + 7$ f(-x)• $9x^5 - 5x^4 - 6x^3 + 3x^2 - 2x - 7$

2. In each xy plane shown below, a function is graphed with blue. Draw the indicated reflections (as a second curve, indicated in legend) with black (or with whatever you have). The x axis is horizontal and the y axis is vertical (as typical), and the scale is equal on both axes.



For all questions on this page, the functions f, g, and h are defined by the table below.

x	f(x)	$\frac{g(x)}{6}$	h(x)
1	1	6	7
2	7	9	1
3	2	1	5
4	8	3	6
5	4	8	2
6	5	7	8
7	3	4	4
8	9	2	3
9	6	5	9

3. Evaluate h(8).

4. Evaluate $f^{-1}(5)$.

5. By filling more rows of the table, it is possible to make function f even. If that were done, what would be the value of f(-9)?

6. By filling more rows of the table, it is possible to make function g odd. If that were done, what would be the value of g(-4)?

7. A function, f, is **even** if f(x) = f(-x) for all x in the domain. A function, g, is **odd** if g(x) = -g(-x) for all x in the domain.

Let polynomial p be defined with the following equation:

$$p(x) = -x^3 - x$$

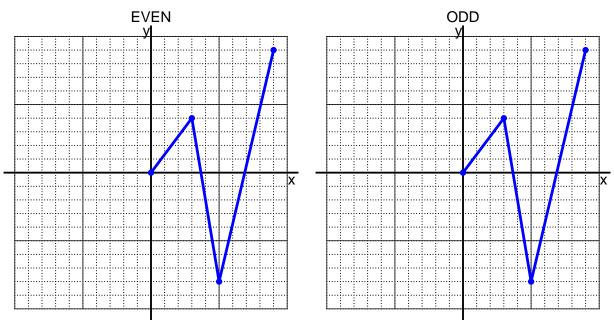
a. Express p(-x) as a polynomial in standard form.

b. Express -p(-x) as a polynomial in standard form.

c. Is polynomial p even, odd, or neither?

d. Explain how you know the answer to part c.

8. I have drawn half of a function. Draw the other half to make it even or odd.



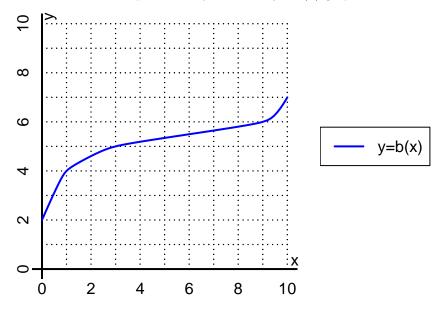
9. Let function f be defined with the equation below.

$$f(x) = 9x - 5$$

a. Evaluate f(8).

b. Evaluate $f^{-1}(13)$.

10. The function b is represented by the curve y = b(x) graphed below.



a. Evaluate b(3).

b. Evaluate $b^{-1}(4)$.

- 11. Function f is defined by the table below.
 - a. Complete the columns for -f(x) and f(-x) and -f(-x).

x	f(x)	-f(x)	f(-x)	-f(-x)
-2	9			
-1	5			
0	0			
1	-5			
2	9			

b. Is function f even, odd, or neither?

c. How do you know the answer to part b?